Acta Zootaxonomica Sinica, 36 (1): 156 – 158 (Jan. 2011) ISSN 1000-0739
动物分类学报

中国真管螺属一新种记述（肺螺亚纲，柄眼目，烟管螺科）

田 明 范 彪 陈元晓*
昆明医学院细胞生物学及遗传学教研室 昆明 650500

摘 要 记述采自云南省石林县陆生贝类1新种，大叠水真管螺 *Euphaedusa dadieshuiensis* sp. nov.，文中对新种形态特征、栖息环境进行了描述，并对其相似种进行了分析和讨论。

关键词 肺螺亚纲，柄眼目，烟管螺科，真管螺属，新种.
中图分类号 Q959.212

笔者在整理云南省陆生贝类标本时，经鉴定发现烟管螺科 Clausiliidae，真管螺属 1 新种，报道如下。

大叠水真管螺，新种 *Euphaedusa dadieshuiensis* sp. nov.（图 1 ~ 6）

正模标本 壳高 14.76 mm，壳宽 3.30 mm，壳口高 2.88 mm，壳口宽 2.06 mm，1996 年 7 月 2 日采自云南省石林县大叠水。副模标本：成螺 167 个，幼螺 76 个。壳高 13.90 ~ 16.70 mm，壳宽 2.96 ~ 3.48 mm，壳口高 2.54 ~ 2.94 mm，壳口宽 1.70 ~ 2.16 mm，1996 年 7 月 2 日和 2010 年 8 月 9 日采自云南省石林县大叠水。正、副模标本均保存在昆明医学院标本馆（昆明）。

形态特征 贝壳小型，呈细长纺锤形。左旋，壳质薄，半透明，易碎。有 $11\frac{1}{2}$ 个螺层，前几个螺层增长迅速，均略膨胀，螺旋部较高，呈塔形，在每一螺层的缝合线下方有 1 环状皱褶，体螺层增长缓慢，膨大，在其背面有粗的肋纹。壳面呈深黄褐色或栗褐色，其上并有清晰的成斜行排列的生长线和螺纹，靠近壳口处螺纹较粗而明显。壳顶钝，胚螺层光滑，无螺纹，缝合线深。壳口小，呈梨形，稍倾斜，口缘厚，为白色。在壳口处可见到较小的上板和呈片状的下板，而看不见下轴板。上、下板之间距离较近，弯曲向内盘旋，上板稍大，其末端与螺旋板相接。在体螺层右侧面可见细长的主襞褶（主襞褶延伸及体螺层背面），不见半月襞，有 1 短而斜的下腭褶。闭板呈小匙状，其顶端稍厚，无缺刻，柄细长。

栖息环境 常生活在灌木丛、草丛中，石块、落叶下和土石缝隙中，栖息于潮湿多腐殖质的石灰岩地区，公园附近的长满苔藓、地衣的岩石上或缝隙中。

现已知分布于我国云南省。

讨论 真管螺属中国目前已记录有 74 种（含亚种） （Moellendorff，1884，1886；Sykes，1895；Wagner，1919 – 1920；Ehrmann，1922 – 1925；Lindholm，1924；Yen 1939，1942；Zilch，1949；Loosjes，1953；Chen & Gao，1987；Chen *et al.*，1996；Chen & Zhang，1999；Chen *et al.*，2009），新种与皮氏真管螺 *Euphaedusa beresowskii*（Moellendorff，1902）外形上极为相似，但后者个体较小（壳高 12.9 ~ 14.5 mm，壳宽 3.0 mm，壳口高 2.3 mm，壳口宽 2.0 mm），有 $12\frac{1}{2}$ 个螺层，在体螺层右侧面可见到 1 较长的主襞褶和 4 ~ 5 条较短的腭褶。与前者有所区别。

词源：新种名源于本种的采集地云南省石林县大叠水。

国家自然科学基金（39260014）、云南省科委应用基础研究基金（95C075Q）、云南省科技厅（2010ZC108）、云南省教育厅科学研究基金（2010Y208）资助项目.
* 通讯作者.
收稿日期：2010-09-06，修订日期：2010-11-16.

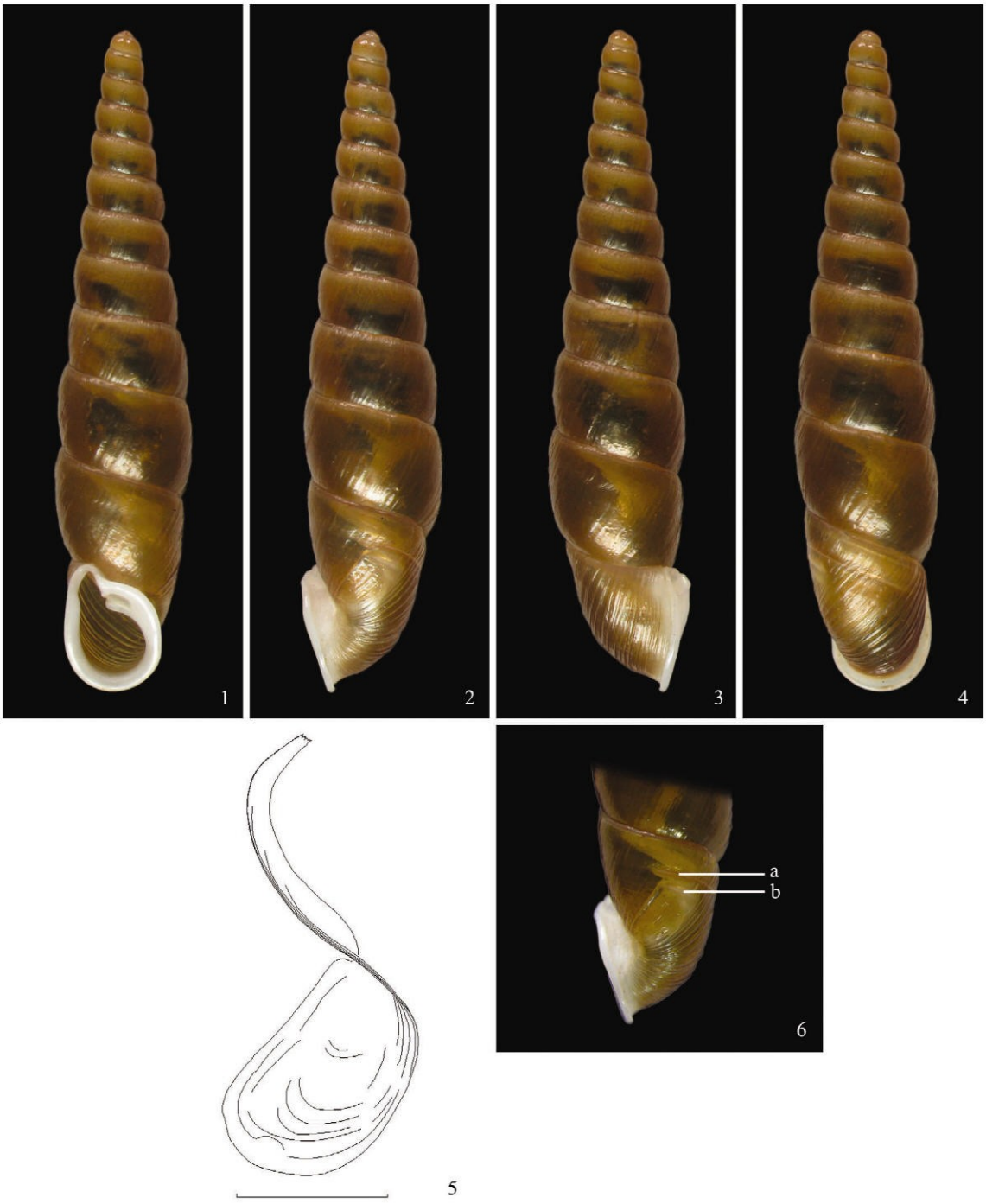

图 1～6　大叠水真管螺，新种 *Euphaedusa dadieshuiensis* sp. nov.

1. 贝壳腹面观（ventral view of shell）2. 贝壳右侧面观（right lateral view of shell）3. 贝壳左侧面观（left lateral view of shell）4. 贝壳背面观（dorsal view of shell）5. 闭板（plate of clausilium）6. 主襞褶和下腭褶之位置（location of principal plica & lower palatal plica）a. 主襞褶（principal plica）b. 下腭褶（lower palatal plica）比例尺（scale bar）＝1 mm

REFERENCES（参考文献）

Chen, D-N and Gao, J-X 1987. Economic Fauna Sinica of China. Science Press, Beijing. 63－64.［陈德牛，高家祥，1987. 中国经济动物志. 北京：科学出版社. 63～64］

Chen, D-N, Liu, Y-H and Xu, W-X 1996. Two new species of the family Clausiliidae from China.（Pulmonata, Styommatophora, Clausiliidae）. *Acta Zootaxonomica Sinica*, 21（4）: 402－405.［陈德牛，刘延虹，许文贤，1996. 中国烟管螺科二新种（肺螺亚纲，柄眼目，烟管螺科）. 动物分类学报，21（4）：402～405］

Chen, D-N and Zhang, G-Q 1999. Fauna Sinica（Mollusca, Gastropoda, Pulmonata, Stylommatophora, Clausiliidae）. Science Press, Beijing. 73－134.［陈德牛，张国庆，1999. 中国动物志，软体动物门，腹足纲，柄眼目，烟管螺科. 北京：科学出版社.

73 ~ 134]
Chen, Y-X, Luo, T-C and Zhou, W-C 2009. A new species of the genus *Euphaedusa* Boettger from China. (Pulmonata, Styommatophora, Clausiliidae). *Acta Zootaxonomica Sinica*, 34 (2): 340 – 342. [陈元晓, 罗泰吕, 周卫川, 2009. 中国真管螺属一新种记述 (肺螺亚纲, 柄眼目, 烟管螺科). 动物分类学报, 34 (2): 340 ~ 342]
Ehrmann, P. 1922 – 1925. Zur Systematik der Clausiliiden, besonders der ostasiatischen. *Sitz. Der Nat. Ges.*, 49 – 52.
Lindholm, W. A. 1924. A revised systematic list of the genera of the Clausiliidae, recent and fossil with their subdivisions synonymy and types. *Proc. Malac. Soc. London.*, 16: 53 – 80.
Loosjes, F. E. 1953. Monograph of the Indo-Australian Clausiliidae (Gastropoda, Pulmonata, Clausiliidae, Phaedusinae). Wageningen Drukerij en Uitgeversbedrijf firma ponsen and Looiujen. 1 – 226.
Luo, Y, Chen, D-N and Zhou, W-C 2009. A new species of the genus *Euphaedusa* from China (Pulmonata, Stylommatophora, Clausiliidae). *Acta Zootaxonomica Sinica*, 34 (1): 119 – 121. [罗煜, 陈德牛, 周卫川, 2009. 中国真管螺属一新种记述 (肺螺亚纲, 柄眼目, 烟管螺科). 动物分类学报, 34 (1): 119 ~ 121]
Moellendorff, O. V. 1884. Diagnosen neuer chinesischer Arten. *Jahrb.*, 169 – 174.
Moellendorff, O. V. 1886. Materialien zur Fauna von China. *Jahrb.*, 156 – 210.
Sykes, B. A. 1895. Descriptions of new *Clausilia* from Japan and Yunnan. *Proc. Malac. Soc. London*, 1: 261 – 263.
Wagner, A. 1919 – 1920. Zur Anatomie und Systematik der Clausiliiden. *Nachr. Blatt. Frankfurt A. M.*, 51: 49 – 60, 87 – 104, 129 – 147; 52: 1 – 13, 67 – 78, 97 – 108, 145 – 158.
Yen, T. C. 1939. Die Chinensisch Land-und SussBwasser-Gastropoden des Natur-Museum Senckenberg. *Abh. Senckenb. Natur. Ges.*, 444: 100 – 107., Taf. 10 – 61.
Yen, T. C. 1942. A review of Chinese Gastropoda in the British Museum. *Proc. Malac. Soc. London*, 24: 1 – 289.
Zilch, A. 1949. Studien Paul Ehrmann uber asiatische und sudamerikanische Clausiliiden. *Arch. Moll.*, 78 (1/3): 69 – 98.
Лихареи, И. М. Фауни СССР Моллюки, Том, Ⅲ, Вып, 4, Клауаэилиицы (Clausiliidae). *Надат Акад. Наук. СССР. Москва.*, 11 – 317.

A NEW SPECIES OF THE GENUS *EUPHAEDUSA* FROM YANNAN PROVINCE, CHINA (PULMONATA, STYLOMMATOPHORA, CLAUSILLIDAE)

TIAN Ming, FAN Biao, CHEN Yuan-Xiao *
Department of Cell Biology and Genetics, Kunming Medical University, Kunming 650500, *China*

Abstract In the present paper a new species of land snail is described. The materials were collected by the authors in Shilin County, Yunnan Province, China, July 1996. Type specimens are deposited in the Kunming Medical University, China.

***Euphaedusa dadieshuiensis* sp. nov.** (Figs 1 – 6)

Shell small, slender, fusiform. Sinistral, thin, translucence, fragile. Whorls 11 $\frac{1}{2}$, moderetely convex with high spiral part, pagoda-formed, under the suture with a annular ruga in each whorl, body whorl expand, and with thick rib-stria on the back of body whorl. Shell yellowish brown or chestnut-yellow in colour, surface with very distinct obliquely spiral line and growth line, with distinct thick spiral lines on aperture nearby; protoconch smooth, without spiral line. Apex blunt, suture deep. Aperture small, pear-shaped, peristome thick, white in color. Superior lamella small, inferior lamella large, both lamellae visible in aperture, and both lamella distance very near, and the superior lamella continues into spiral lamella. Subcolumellar lamella not visible in front aperture view. Principal plica long and thin, and an short and oblique lower palatal plica visible in the right side of the last whorl (Principal plica extend to the back of the last whorl); lunella plicae is not visible. The clausilium soup spoon-formed, and thick, without a small gap on front; pedicle long and thin.

At present, a total of 75 species and subspecies of genus *Euphaedusa* were found in China. The new species closely resembles *Euphaedusa beresowskii* (Moellendorff, 1902) in general structure, but differs from the latter chiefly in the shell being much bigger and with 11 $\frac{1}{2}$ whorls, (alt. 14.76 mm, diam. 3.30 mm, alt. of aperture 2.88 mm, diam. of aperture 2.06 mm). Superior lamella small, inferior lamella large, both lamellae visible in aperture, and both lamella distance very near, and the superior lamella continues into spiral lamella. Subcolumellar lamella not visible in front aperture view. Principal plica long and thin, and a short and oblique lower palatal plica visible in the right side of the last whorl; lunell plicae is not visible. The clausilium soup spoon-formed, and without a small gap on front; pedicle long and thin. The latter shell being much smaller (alt. 12.9 – 14.5 mm, diam. 3.0 mm, alt. of aperture 2.3 mm, diam. of aperture 2.0 mm), with 12 $\frac{1}{2}$ whorls, with long principal plica and 4 – 5 short plicae. The clausilium small, leaf-form, acute and smooth, and without a small gap.

Holotype. alt. 14.76 mm, diam. 3.30 mm, alt. of aperture 2.88 mm, diam. of aperture 2.06 mm collected from Dadieshui Town, Shilin County (24°40′N, 103°11′E), Yunnan Province, China, 2 July 1996. Paratypes: 167 adult specimens, 76 young specimens. alt. 13.90 – 16.70 mm, diam. 2.96 – 3.48 mm, alt. of aperture 2.54 – 2.94 mm, diam. of aperture 1.70 – 2.16 mm, collected from Dadieshui Town, Shilin County (24°40′N, 103°11′E), Yunnan Province, China, 2 July 1996. and 9 Aug. 2010.

Etymology. The name of the new species is based on collected from Dadieshui Shilin County.

Key words Pulmonata, Stylommatophora, Clausiliidae, *Euphaedusa*, new species.

* Corresponding author.